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UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
REGION 4

IN THE MATTER OF:

Terry Creek Dredge Spoil
Areas/Hercules Outfall Site,
Brunswick, Glynn County,
Georgia

Hercules, Incorporated,

Respondent.

ADMINISTRATIVE ORDER ON
CONSENT FOR REMOVAL ACTION
AMENDMENT

U.S. EPA Region 4
CERCLA Docket No. 98-04-C

Proceeding Under Section 104, 106(a),
107 and 122 of the Comprehensive
Environmental Response, Compensation,
and Liability Act, as amended, 42 U.S.C.
Sections 9604, 9606(a), 9607 and 9622

I. AMENDMENT

The Administrative Order on Consent for Removal Action (the "Order"), CERCLA Docket No. 98-04-C, effective date December, 12, 1997, entered into between the United States Environmental Protection Agency ("EPA") and Hercules, Incorporated ("Hercules" or "Respondent") is hereby amended by agreement of the parties as follows:

A. Section III FINDINGS OF FACT, is hereby amended by addition of the following:

A sediment sample taken in the west end of the pre-weir designated area following Respondent's performance of the first phase of the sediment removal action under the Order contained 2,600 parts per million ("ppm") toxaphene.

A sediment sample taken in the post-weir designated area pursuant to the Order contained 30,000 ppm toxaphene. Current depth profiles in this location indicate toxaphene sediment concentrations as high as 2,100 ppm to a depth of 4 to 5 feet.

A sediment sample taken pursuant to the Order in the North Dupree Creek designated area contained 290 ppm toxaphene and a sediment sample taken in the Terry/Dupree Creek Confluence area contained 110 ppm toxaphene. These sediment samples were taken in the top foot of sediment.

B. Based on the foregoing, it is Ordered and Agreed that Section V ORDER, Paragraph 2. Work to Be Performed, is hereby amended by addition of the following subparagraphs:

3. Removal of sediments from the "Pre-Weir Outfall Ditch" section of the Hercules Effluent Channel at the locations and to the depths described in the document attached hereto entitled "Minimum Sediment Excavation Depths, Pre-Weir Outfall Ditch," Figure No. 1, July 14, 1998, that is hereby incorporated into and enforceable under this Order as Appendix "C".
4. Removal of sediments from the "Post Weir" and from the "Outfall Ditch Mouth" sections of the Hercules Effluent Channel at the locations and to the depths described in the document attached hereto entitled "Minimum Sediment Excavation Depths Post-Weir Outfall Ditch and Outfall Ditch Mouth," Figure No. 2, July 14, 1998, that is hereby incorporated into and enforceable under this Order as Appendix "D".
5. Removal of sediments to a depth of no less than one foot from the portions of Terry Creek and Dupree Creek described as "Creek Zones" numbered 1 through 6, inclusive, in the document entitled "Creek Sediment Removal Zones", Figure No. 3, July 14, 1998, that is hereby incorporated into and enforceable under this Order as Appendix "E".
6. Within thirty (30) days of the effective date of this Amendment, submit to EPA for review and approval a draft document entitled "Interim Report Number Two for the Hercules Effluent Channel/ Terry Creek Site" that shall consist of a cogent compilation of all site data collected and/or generated since Respondent submitted the Interim Report.
7. At least fifteen (15) days prior to the initiation of field activities, submit to EPA for review and approval an updated and revised draft Site Health and Safety Plan accurately reflecting the work to be performed consistent with this Order, as amended.

C. Section V ORDER, Paragraph 2.1 Work Plan and Implementation, is hereby amended by addition of the following:

Within thirty (30) days after the effective date of this Amendment, Respondent shall submit to EPA for review and approval (a) draft Work Plan(s) for performing each of the removal tasks set forth above in Section V. ORDER, Paragraph 2, Subparagraphs 3, 4, and 5, of this Order, as amended. EPA may approve, disapprove, require revisions to, or modify the draft Work Plan(s). If EPA requires revisions, Respondent shall submit the revised draft Work Plan(s) within thirty (30) days of receipt of EPA's notification of the required revisions. Respondent shall implement the Work Plan(s) as finally approved in writing by EPA in accordance with the

schedule approved by EPA. Respondent shall not be required under this Paragraph to perform any removal task if, or to the extent, such task is not included in (a) Work Plan(s) that is (are) approved in writing by EPA. Once approved, or approved with modifications, the Work Plan(s), schedule(s), and any subsequent modification(s) shall be fully enforceable under this Order, as amended. Respondent shall notify EPA at least 48 hours prior to performing any on-Site work pursuant to an EPA-approved Work Plan. Respondent shall not commence or undertake any removal action on-Site without prior EPA approval.

EPA has notified the State of Georgia of this action pursuant to Section 106(a) of CERCLA, 42 U.S.C. Section 9606(a).

II. EFFECTIVE DATE

This Amendment to the Order shall be effective (5) days after the Order is signed, below, by the duly authorized delegatee of the Regional Administrator of EPA, Region 4.

IN THE MATTER OF THIS **AMENDMENT** TO THE ADMINISTRATIVE ORDER ON CONSENT FOR REMOVAL ACTION (CERCLA Docket No. 98-04-C; Dec. 12, 1997) for the Terry Creek Dredge Spoil Areas/Hercules Outfall Site, Brunswick, Glynn County, Georgia, Hercules, Inc., Respondent:

The undersigned representative of Respondent certifies that he or she is fully authorized to enter into the terms and conditions of this Order and to bind the party he or she represents to this document.

Agreed this 2 day of November, 1998.

Hercules Incorporated

Please type name of Respondent

1313 North Market Street Wilmington, DE 19894

Please type address

BY:

Kendall W. Patterson

Your Signature

11/2/98

Date

Kendall W. Patterson

Please type your name

Vice President, Safety, Health and Environment

Your title or position

IN THE MATTER OF THIS **AMENDMENT** TO THE ADMINISTRATIVE ORDER ON
CONSENT FOR REMOVAL ACTION (CERCLA Docket No. 98-04-C; Dec. 12, 1997) for the
Terry Creek Dredge Spoil Areas/Hercules Outfall Site, Brunswick, Glynn County, Georgia,
Hercules, Inc., Respondent:

It is so ORDERED and Agreed

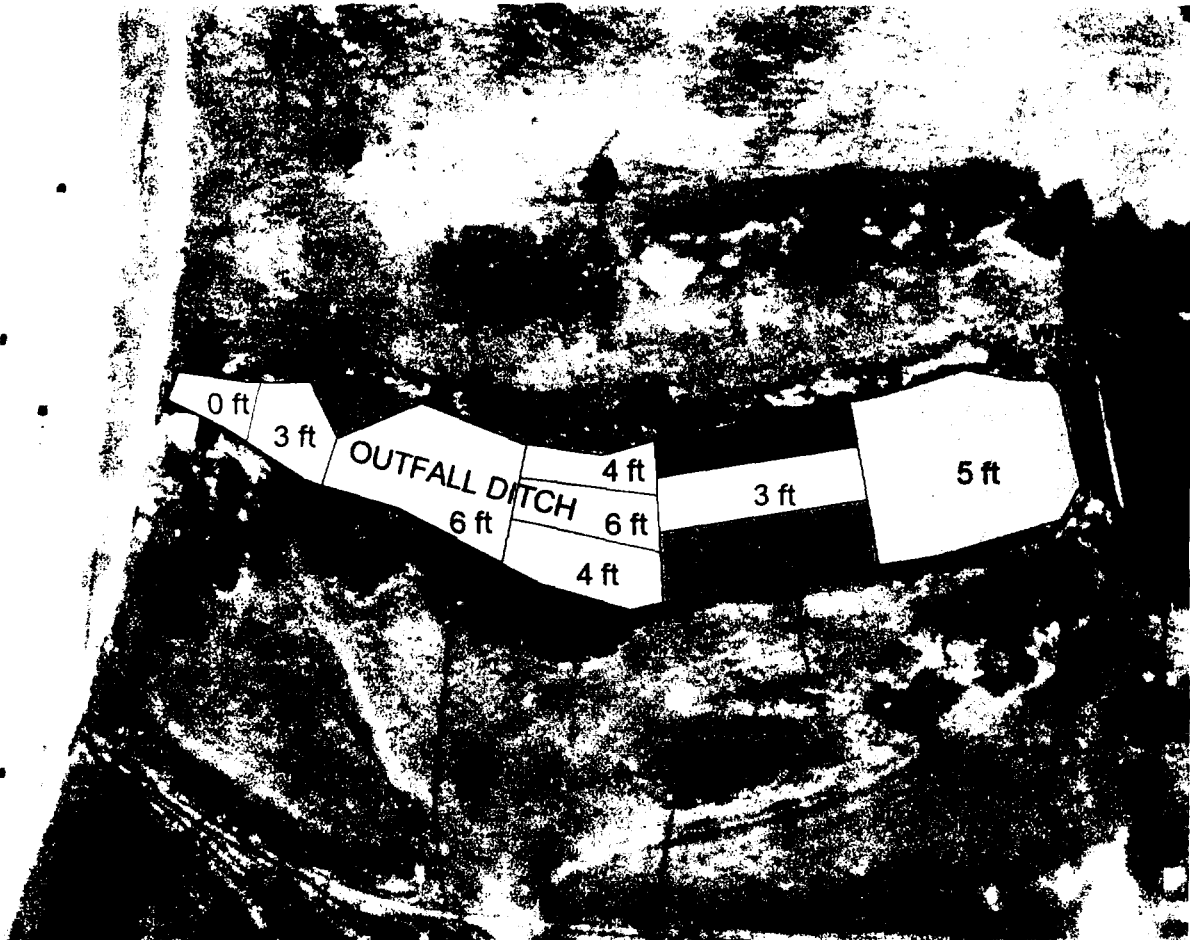
this 17th day of November, 1998.

BY: 

for Myron D. Lair
Chief, Emergency Response and Removal Branch
Waste Management Division
Region 4
U.S. Environmental Protection Agency

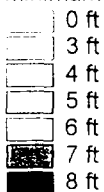
MINIMUM SEDIMENT EXCAVATION DEPTHS PRE-WEIR OUTFALL DITCH

TERRY CREEK SITE
BRUNSWICK, GEORGIA



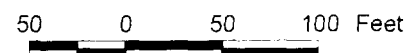
LEGEND

Minimum Sediment Excavation Depths



NOTE: Depths measured from top of sediment.

APPENDIX "C"



GEOSYNTEC CONSULTANTS
ATLANTA, GEORGIA

FIGURE NO.	1
PROJECT NO.	GL0411
DATE	14 JULY 98
FILE NO.	FIG1.890

10 11 0025

MINIMUM SEDIMENT EXCAVATION DEPTHS PRE-WEIR OUTFALL DITCH

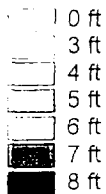


TERRY CREEK SITE
BRUNSWICK, GEORGIA

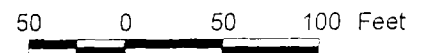


LEGEND

Minimum Sediment Excavation Depths



NOTE: Depths measured from top of sediment.



APPENDIX "C"



GEOSYNTEC CONSULTANTS
ATLANTA, GEORGIA

FIGURE NO.	1
PROJECT NO.	GL0411
DATE	14 JULY 98
FILE NO.	FIG1.890

MINIMUM SEDIMENT EXCAVATION DEPTHS POST-WEIR OUTFALL DITCH AND OUTFALL DITCH MOUTH

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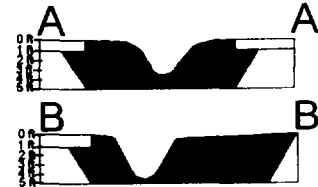
TERRY CREEK SITE
BRUNSWICK, GEORGIA



LEGEND

- Minimum 1 ft Depth Sediment Excavation Zone
- Minimum 5 ft Depth Sediment Excavation Zone

CROSS-SECTION VIEW



NOT TO SCALE

NOTE: Depths measured from top of sediment.

APPENDIX "D"

50 0 50 100 Feet



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ATLANTA, GEORGIA

FIGURE NO.	2
PROJECT NO.	GL0411
DATE	14 JULY 98
FILE NO.	FIG2.890

MINIMUM SEDIMENT EXCAVATION DEPTHS POST-WEIR OUTFALL DITCH AND OUTFALL DITCH MOUTH



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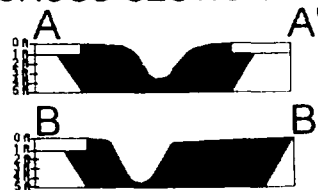
TERRY CREEK SITE
BRUNSWICK, GEORGIA



LEGEND

-  Minimum 1 ft Depth Sediment Excavation Zone
-  Minimum 5 ft Depth Sediment Excavation Zone

CROSS-SECTION VIEW



NOT TO SCALE

NOTE: Depths measured from top of sediment.

APPENDIX "D"

50 0 50 100 Feet

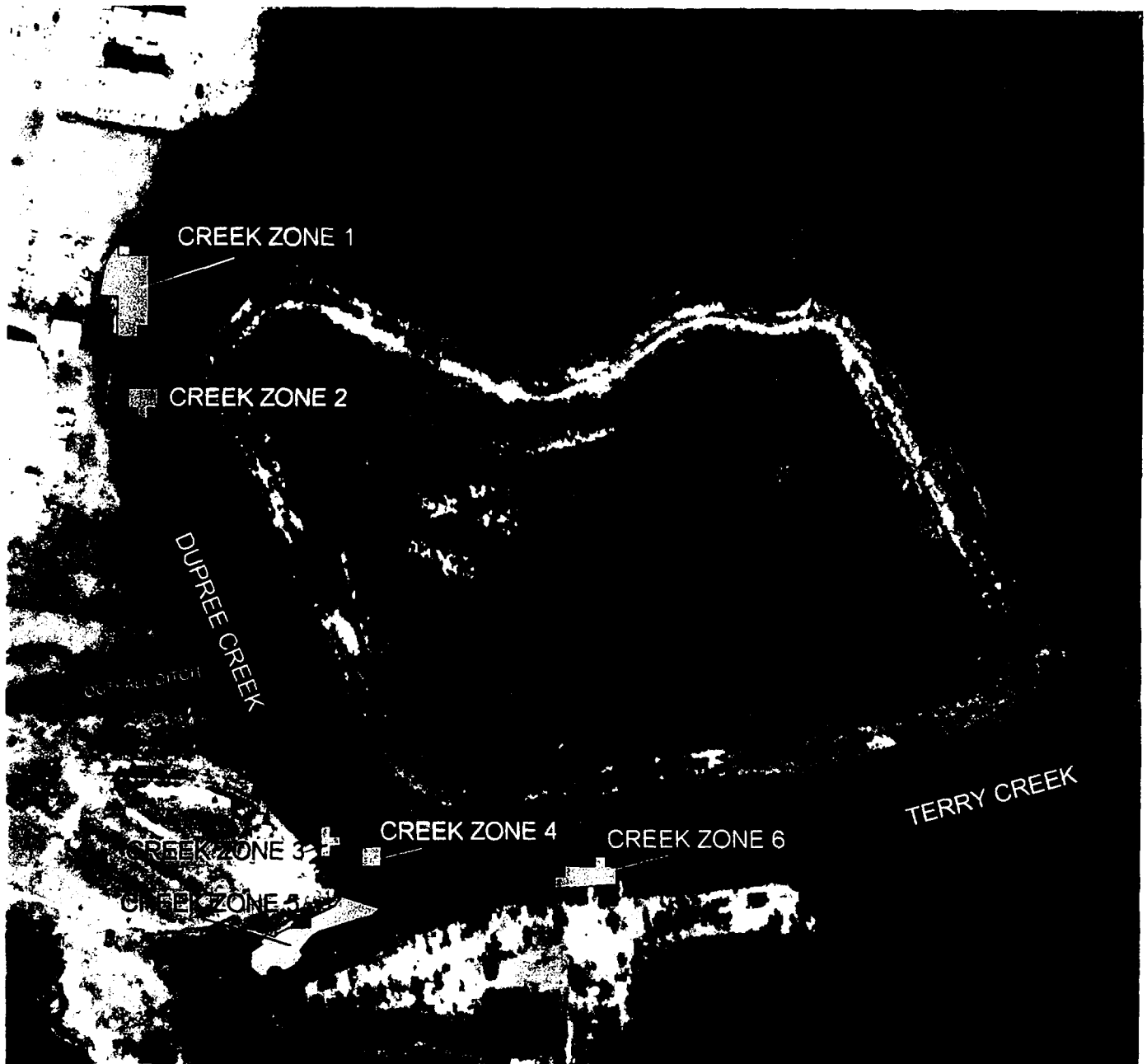


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FIGURE NO.	2
PROJECT NO.	GL0411
DATE	14 JULY 98
FILE NO.	FIG2.890

CREEK SEDIMENT REMOVAL ZONES TC 11 0028

TERRY CREEK SITE
BRUNSWICK, GEORGIA



APPENDIX "E"

250 0 250 500 Feet



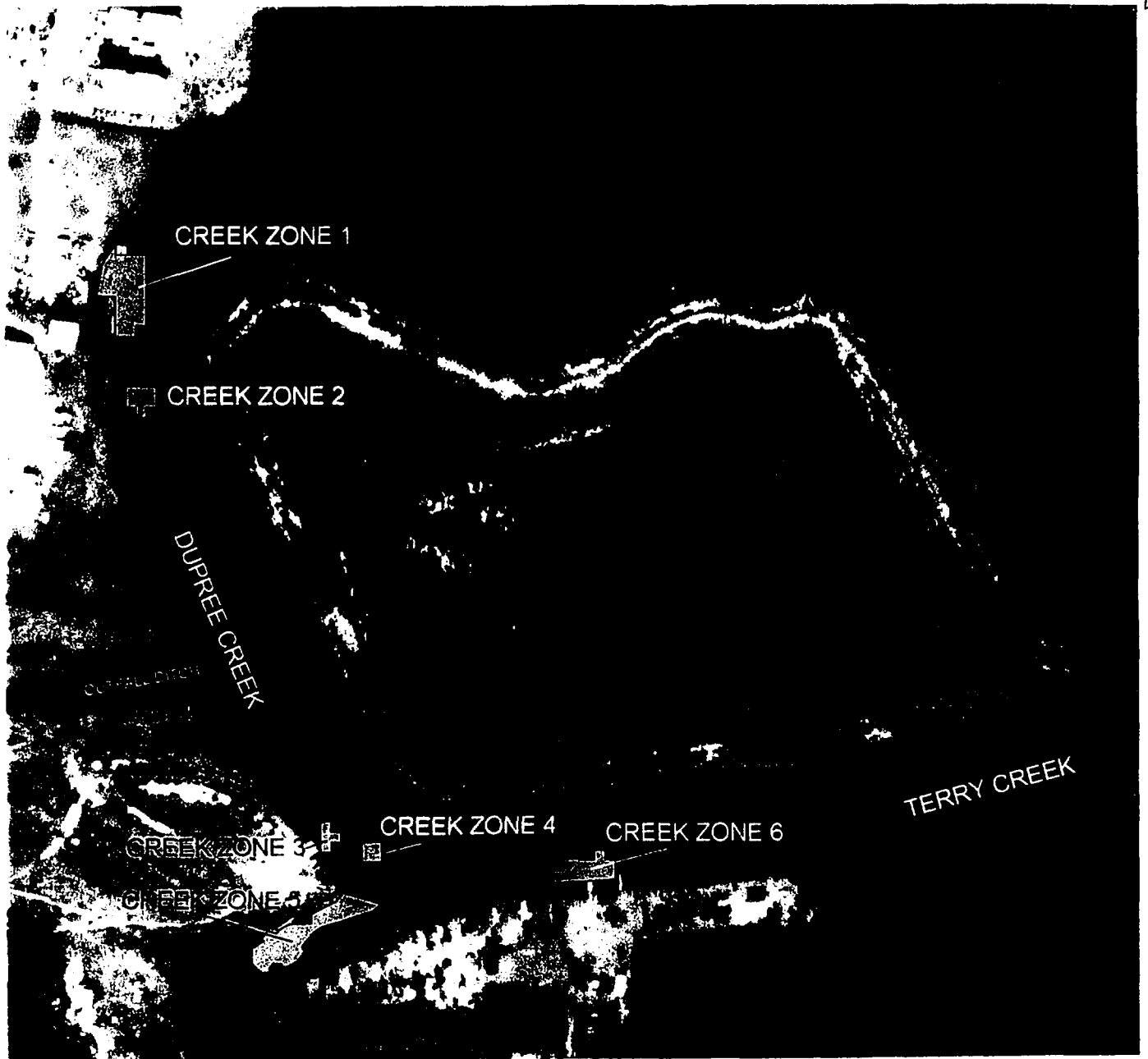
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FIGURE NO.	3
PROJECT NO.	GL0411
DATE	14 JULY 98
FILE NO.	FIG3.890

CREEK SEDIMENT REMOVAL ZONES

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TERRY CREEK SITE
BRUNSWICK, GEORGIA



APPENDIX "E"

250 0 250 500 Feet



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FIGURE NO.	3
PROJECT NO.	GL0411
DATE	14 JULY 98
FILE NO.	FIG3.890